## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re	Application of: Gole, et al.	Confirmation No.: TBA/Parent - 5593					
Serial No.: TBA/Parent - 09/820,413		Group Art Unit: TBA/Parent - 2814					
		Examiner: TBA/Parent - Shrinivas H. Rao					
	January 26, 2004 - March 29, 2001						
For:	Silicon Based Nanospheres and Nanowir	Docket No. 62004-1662					
101.	•						
	INFORMATION DE	SCLOSURE STATEMENT					
P.O. Bo	ssioner for Patents ox 1450 dria, Virginia 22313-1450						
Sir:	This information disclosure statement is filed in ac	ecordance with 37 C.F.R. §§ 1.56, 1.97, and 1.98, and specifically:					
	under 37 CFR 1.97(b), or (within Three months of filing national application; or date mailing date of first office action on the merits; whichever of						
	under 37 CFR 1.97(c) together with either a  Statement Under 37 C.F.R. 1.97(e)  a \$180.00 fee under 37 CFR 1.17(p  (After the CFR 1.97(b) time period, but before occurs first)	o, or					
	under 37 CFR 1.97(d) together with a:  Statement under 37 CFR 1.97(e), a a \$180.00 petition fee set forth in 3 (Filed after final office action or notice of allow issue fee)						
	Enclosed is a check in the amount of \$ . Please cy of this application, please charge any fees requisissioner is hereby requested to credit any overpayment to						
	Applicant(s) submit herewith Form PTO 1449A - Information Disclosure Statement by Applicant together with copies (where required) of patents, publications or other information of which applicant(s) are aware, which applicant(s) believe(s) may or may not be material to the examination of this application and for which there may be a duty to disclose in accordance with 37 CFR 1.56. As required by 37 C.F.R. §1.98(a), a legible copy of each document is provided.						
	CFR 1.56(c) most knowledgeable about the content cited in a search report or other action by a foreign p	guage patents, foreign language publications and rm 1449, as presently understood by the individual(s) designated in 37 is given on the attached sheet, or where a foreign language patent is patent office in a counterpart foreign application, an English language the degree of relevance found by the foreign office is listed on the form					

The following rights are reserved by the Applicant(s): the right to establish the patentability of the claimed invention over any of the listed documents should they be applied as reference, and/or the right to prove that some of these documents may not be prior art, and/or the right to prove that some of these documents may not be enabling for the teachings they purport to offer.

This statement should not be construed as a representation that an exhaustive search has been made, or that information more material to the examination of the present application does not exist. Any statements or identifications regarding the relevance of any portion(s) of cited references should not be construed as a representation that the most relevant portion(s) have been identified, and the absence of such statements or identifications should not be construed as representations that there are no relevant portion(s). The Examiner is specifically requested not to rely solely on the materials submitted herewith. The Examiner is requested to conduct an independent and thorough review of the documents, and to form independent opinions as to their significance.

It is requested that the information disclosed herein be made of record in this application and that the Examiner initial and return a copy of the enclosed PTO-1449 to indicate the documents have been considered.

Respectfully Submitted,

THOMAS, KAYDEN, HORSTEMEYER

& RISLEY, L.L.P.

By:

Christopher B. Linder, Reg. No. 47,751

100 Galleria Parkway, Suite 1750 Atlanta, Georgia 30339-5948 770-933-9500

## **EXPRESS MAIL**

I hereby certify that this correspondence is being deposited with the United States Postal Service as "Express Mail Post Office to Addressee" in an envelope addressed to: Commissioner for Patent, Mail Stop Patent Application, P.O. Box 1450, Alexandria, VA. on January 2004.

Express Mail Mb. EL 993859778U

Signature Vo Bryan

Form PTO-1449  INFORMATION DISCLOSURE CITATION  (Use several sheets if necessary)					Attorney Docket No. 62004-1662		Serial No. TBA			
					Applicant Gole, et al.	•				
					Filing Date January 26, 2004			Group TBA		
			U.S. PA	TENT DOCUMEN	ITS					
Examiner Initials	· · · · · · · · · · · · · · · · · · ·		Date	Nar	me	Class	Subclass	Filing Date If Appropriate		
			FOREIGN 1	PATENT DOCUM	IENTS					
		Document	Date	Coun	itry	Class	Subclass	Translation		
		Number						Yes	No	
						<del> </del>		ļ		
	.1	OTHER DOCUM	1 MENTS (Includ	ling Author, Title, I	Date, Pertinent	Pages, et	c.)	1		
A Gole, Stout, Rauch, Wang; Direct synthesis of silicon nanowires, silica nanospheres, and wire-like nagglomerates; Applied Physics Letters, vol. 76, no. 17, April 24, 2000, pages 2346-2348								osphere	=	
B Hu, Odom, Lieber; Chemistry and Physics in One Dimension: Synthesis and F Acc. Chem. Res. 1999, vol. 32, no. 5, 1999, pages 435-445							roperties of Nanowires and Nanotubes,			
	C Gole, White; Nanocatalysis: Selective Conversion of Ethanol to Acetaldehyde Using Monoatomically Di Copper on Silica Nanospheres; Journal of Catalysis, pages 2-15									
D Crooks, Zhao, Sun, Chechik, Yeung; Dendrimer-Encapsulated Metal Nanoparticles: Synthe Applications to Catalysis; Accounts of Chemical Research, vol. 34, no. 3, March 2001; pages								cterization	n, and	
	Е	Kenvin and White; Suppo of Catalysis; 1992; pages 8		repared from Monon	uclear Copper Co	omplexes:	Catalytic Pro	operties; J	ournal	
* EXAM	NER: I	itial if citation considered, wh	nether or not citation	on is in conformance w	rith MPEP § 609. 1	Oraw line ti	hrough citation	if not in		
conformance	and no	t considered. Include copy of		t communication to the	e applicant.					
EXAMINI	EKS SI	IGNATURE:		DAII	E CONSIDERED	<b>'.</b>				
		· · · · · · · · · · · · · · · · · · ·		Patent and Tra	demark Office; U	S. DEPA	RTMENT C	F COMM	ERCE	